



LABORATORIES, INC.
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California Resources Corporation	Laboratory No: 1629021-01
PO Box 1001	Date Received: 10/14/16
Tupman, CA 93276	Date Analyzed: 10/17/16
Attention: Juan Campos	Purchase Order:
Sample Description: 1-5G_STV-East, Elk Hills	Sample Pressure (field Conditions): 50 psig
Analytical Notes:	Sample Temperature (field Conditions): 120 °F
FLASH EMISSION ANALYSIS	

Liquid Analysis

Constituent:	Result	Unit
Sample Matrix:	Oil	
API Gravity @ 60°F (ASTM D-287)	33.33	F
Specific Gravity @ 60°F (ASTM D-4052-09)	0.8585	F
Bottom Sediment & Water (BS&W)		
Total Cut, Free Oil	0.0	Vol %
Water	0.0	Vol %
Sediment	0.0	Vol %
Emulsion	0.0	Vol %

Flash Analysis, Gas Evolved from		Results	Results
Constituent:		mol%	wt%
Oxygen	O2	0.59	0.44
Nitrogen	N2	2.22	1.46
Carbon Dioxide	CO2	1.72	1.79
Hydrogen	H2	0.00	0.00
Hydrogen Sulfide	H2S	0.00	0.00
Methane	C1	26.10	9.85
Ethane	C2	13.18	9.33
Propane	C3	21.90	22.73
IsoButane	C4	5.00	6.83
n-Butane	C4	13.98	19.13
IsoPentane	C5	4.69	7.97
n-Pentane	C5	3.97	6.73
Hexanes	C6	6.03	12.23
Heptanes	C7	0.02	0.04
Octanes	C8	0.01	0.01
Nonanes	C9	0.17	0.52
Decanes+	C10+	0.04	0.15
Bezene		0.15	0.27
Toluene		0.15	0.32
Ethylbenzene		0.01	0.03
Xylenes		0.06	0.16
Totals:		100.00	100.0

Molecular Weight Total Gaseous Sample	42.16	kg/kg-mole	Gas to Oil Ratio	21.616	scf/STB
Specific Gravity	1.4558	g/cc (air - 1.000g/cc)	Gas to Water Ratio	NA	scf/STB
Carbon Dioxide, CO2	1.79	Wt %			
Methane, CH4	9.85	Wt %			
VOC, C3-C9	76.19	Wt %			
BTEX	0.78	Wt %			

NA: Not Applicable

Laboratory Methods: ASTM D-1945, D-6228, D-3588, D-287, D-4052, D-4007, GPA 2145, GPA TP-17, EPA 8260

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